



# 10/22/24 Morning Report with @CPSolvers



“One life, so many dreams” Case Presenter: Vini (@vini.barzon) Case Discussants: Ravi (@rav7ks) and John (@)

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| <p><b>CC:</b> General malaise and edema for 4 months</p> <p><b>HPI:</b><br/>74 yrs old F that seek medical care for back pain and intense pain in the upper limb which , started 4 months ago. Associated with edema, hearing loss. Loss of appetite, frosty urine and weight loss<br/>The patient shows altered kidney function in outpatient setting and was referred for investigation<br/>She denies fever .</p> | <p><b>Vitals:</b> T:nl HR: 85 BP:120/70 RR: nl</p> <p><b>Exam:</b><br/><b>Gen:</b> Regular condition, pale, well hydrated<br/><b>HEENT: CV: Pulm:</b><br/><b>Extremities/skin:</b> Hyperalgesia sensation in the right hand, 4/5 strength RUE, 2+ edema upper and lower limbs, non-painful</p> | <p><b>Problem Representation:</b> 74 F p/w back pain 4 months, accompanied w/ edema; hearing loss; loss of appetite; found to have elevated ferritin and Creatinine LDH; along with mitral valve vegetation and plasma cell in BM biopsy.</p>  |   |
| <p><b>PMH:</b> HTA, CHF with rEF , cervical mass under investigation for 5 months , Hypothyroidism, breast cancer treated<br/>Hx of kidney dx under investigation.</p> <p><b>Meds:</b> Tylenol, enalapril, spironolactone, levothyroxine</p>   | <p><b>Fam Hx:</b></p> <p><b>Soc Hx:</b></p> <p><b>Health-Related Behaviors:</b> no alcohol, no smoking use</p> <p><b>Allergies:</b></p>  | <p><b>Notable Labs &amp; Imaging:</b><br/><b>Hematology:</b> WBC: 3820 Hgb 5.9 , hct:21 : Plt: 44k Reticulocytes: nl<br/><b>Chemistry:</b><br/>Na: 130 K: 3.2 Cl: HCO3: BUN: 91 Cr:6, glucose: High, Ionized calcium high, PTH:20.6,<br/>AST 73, ALT 22, nl bilirubin, CRP: 4, TSH: 11.19 Free T4: 1, LDH: 367, Ferritin 5,236.3<br/>HIV Hep B negative<br/><b>Imaging:</b><br/><b>TTE:</b> moderate enlargement of the LA, Aortic thickening and mild regurgitation, pulmonary hypertension<br/>Unstable Vegetation in the LVOT, mitral regurgitation, Pulm HTN and patent foramen ovale<br/><b>TEE:</b> Mitral valve vegetation in the subvalvular apparatus + mitral valve annulus calcification, with mild to moderate regurgitation<br/><b>Course:</b> Penicillin + Ceftriaxone was started<br/><b>Head CT:</b> diffuse lytic bone lesions in skull<br/><b>Chest CT:</b> b/ll pleural effusion, pulmonary edema, osteodegenerative changes w/ sclerotic foci, axillary LAD<br/><b>Course:</b> Patient received 3 blood transfusions<br/>B2-microglobulin high, Monoclonal protein in the SPEP (pos. For kappa)<br/>BM: 38% of plasma cells</p> <p><b>Dx: Multiple myeloma</b></p> | <p><b>Teaching Points(Parisa):</b><br/><b>Edema</b> → increased hydrostatic pressure/decreased oncotic pressure: hypoalbuminemia; nephrotic syndrome; protein losing enteropathy; liver disease; hypothyroidism pretibial edema; <u>time course and duration of edema</u> might be clue; <u>bilateral edema</u> usually coming from systematic issue vs <u>unilateral</u> coming from a vascular obstruction.<br/><b>Frothy urine</b> → proteinuria; pseudo proteinuria; fast urine stream; dehydration; DM<br/><b>Lhermitte's sign</b> → electrical shock sensation travels down the spine d/t demyelinating inflammatory process in spine; MS.<br/>Hb 6 plus normal HR suggests a chronic process.<br/><b>Hyperkalemia in RF</b> → cardiac protective; shift K into cells(insulin; beta agonist) ; enhance excretion → loop diuretics; dialysis); monitor ECG; nephrology consult<br/><b>AST&gt;&gt; ALT</b> → hemolysis; alcohol; rhabdomyolysis<br/>LDH hemolysis; muscle; lung (PJP PNA); hematological malignancies<br/>Elevated Ferritin → bacteremia; covid19; HLH cancer<br/><b>Nephrotic syndrome plus lymphadenopathies</b> → monoclonal gammopathies; HIV; granulomatosis dx<br/>Endocarditis empiric Abx → penicillin + ceftriaxone (gram neg rods) <b>Marantic endocarditis(non bacterial thrombotic endocarditis)</b> → malignancies; SLE(Libman sacks) ; hypercoagulable condition<br/><b>Bone lytic + cytopenia + hypercalcemia</b> → Monoclonal protein → SPEP; UPEP; immunofixation; bone marrow. Although MM is notorious; we need to think of castleman<br/>Urine protein to creatinine protein ratio is more comprehensive than alb/cr as all urine protein are included.<br/><b>Plasma cell dyscrasia</b> → MM; waldenstrom macroglobulinemia; light chain dx (abnormal kappa/lambda; kidney dx; Lymphadenopathies; neurological )</p> |